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PHOTOGRAPHIC INTERPRETATION REPORT



CHRONOLOGY  
OF ARMS PLANT VOROSHILOV 4  
KRASNOYARSK, USSR

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# CHRONOLOGY OF ARMS PLANT VOROSHILOV 4, KRASNOYARSK, USSR

## INTRODUCTION

This report is a chronological study of Arms Plant Voroshilov 4 [redacted] Krasnoyarsk, USSR. The plant is located at 56-00-45N 092-59-15E, 3 nautical miles (nm) southeast of Krasnoyarsk Airfield [redacted] (Figure 1). All item numbers in the text of this report refer to Table 1 and Figure 3.

Data concerning the development of Arms Plant Voroshilov 4 since it was first observed was derived from [redacted] photography which covered the plant between [redacted] in many instances, starting and completion dates of construction could not be determined with certainty. Due to poor interpretability of early photography, a chronology of rail lines and roads within the plant area was not attempted. The locations of rail lines and the number of tracks within the plant as shown in Figure 3 are approximate due to snow cover.

The plant is road and rail served and is enclosed by a continuous wall (Figures 2 and 3). No special security measures are evident. Three buildings (items 66-68) are outside the wall but may be part of the plant.

The plant adjoins, and is probably functionally related to, a large rail-served storage area containing considerable open storage along with 23 probable warehouses (Table 2) which have a combined roof cover of approximately [redacted]

As of the latest photography used for this report, the total roof cover of the plant is approximately 3,141,405 square feet. The roof cover has increased appreciably since the plant was first observed in [redacted] (see Figure 3). Construction of large probable fabrication and fabrication/assembly buildings since 1961 has approximately doubled the production area.

The location of Arms Plant 4 three nm southwest of Krasnoyarsk Explosives and Propellant Plant 580 (BE No [redacted]) which produces both conventional and rocket motor propellants and includes a rocket motor test facility

(see Figure 1), and the fact that Arms Plant 4 and Plant 580 are joined by road and rail suggest a possible functional relationship between the two. The proximity of Krasnoyarsk Rocket Engine Test Facility [redacted] located 15 nm east-northeast of Krasnoyarsk, suggests a further possible missile association for Plant 4. However, no missiles or missile-related equipment have been identified on photography of the plant.

## HIGHLIGHTS OF CHRONOLOGY

### 1961

The plant was in existence prior to [redacted] the earliest available [redacted] coverage, when it was first observed and appeared operational. All but 4 major buildings were present at that time.

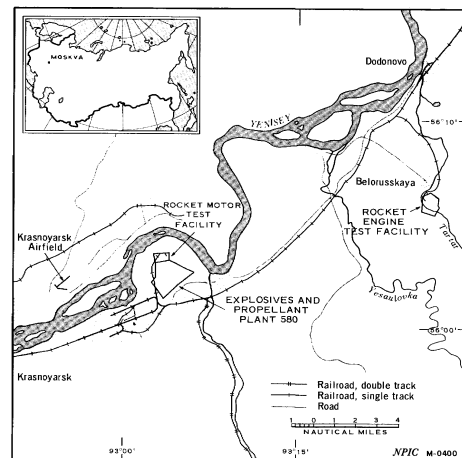


FIGURE 1. LOCATION MAP.

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### 1962

The largest probable assembly building (item 63, Figure 3) in the plant was completed during that year. A probable administration/engineering building (item 39), a probable administration building (item 5), and several support buildings were also added.

### 1963

A large probable fabrication/assembly building (item 10), as well as numerous support buildings, were constructed during 1963.

### 1964

A large addition to a probable fabrication/assembly building (item 10) was erected. A smaller probable fabrication/assembly building which had been evident since 1962 on the site of the addition was razed to make room for the new construction.

### 1965

An addition to a large probable shop building (item 33), a warehouse, and 1 bay of a probable fabrication/assembly building (item 16) were completed.

### 1966

An irregularly shaped building (item 24) became evident outside the south wall of the plant.

### 1967

The south wall of the plant was moved outward to include the irregularly shaped building (item 24) within the plant area. One probable fabrication building (item 11) was constructed, and the area between the portion of item 16 constructed in 1965 and a previously existing building was filled, forming 1 large building.

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FIGURE 2. ARMS PLANT VOROSHILOV 4, KRASNOYARSK, USSR,

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25X1 Note: Horizontal measurements are accurate to within [redacted] whichever is greater. Vertical measurements are accurate to within  $\pm 10\%$ .

Item No	Function/ Description	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed & Apparently Complete* (unless otherwise noted)	Comments
		L	W	H			
25X1 1	Guardhouse						The bldg has 1 high bay.
2	Support bldg						
3	Support bldg						
4	Support bldg						
5	Prob admin bldg						
6	Prob admin bldg						
7	Prob fabrication/ assembly bldg						
8	Warehouse						
9	Warehouse						
10	Prob fabrication/ assembly bldg						
25X1 11	Prob fabrication bldg						An addition was made to the bldg in [redacted] A bldg was raised to make room for the addition.
12	Support bldg						
13	Support bldg						
14	Prob admin/ engineering bldg						
15	Prob fabrication/ assembly bldg						
16	Prob fabrication/ assembly bldg						
17	Warehouse						
18	Warehouse						
19	Warehouse						
20	Support bldg						
21	Support bldg						In 1965 a bay of a separate prob fabrication/assembly bldg was constructed. In 1967 the gap between the 2 structures was filled.
22	Warehouse						
23	Warehouse						
24	Support bldg						
25	U/I bldg						
26	Prob fabrication bldg						
27	Prob fabrication/ assembly bldg						
28	Prob fabrication/ assembly bldg						
29	Guardhouse						
30	Support bldg						
31	U/I bldg						An addition to the bldg was made in 1965.
32	Support bldg						
33	Prob shop bldg						
34	Cooling pond						
35	Press forge						
36	Prob admin/ engineering bldg						
37	Prob admin bldg						
38	Prob admin/ engineering bldg						
39	Prob admin/ engineering bldg						
40	Support bldg						
41	Prob admin/ engineering bldg						This is a multilevel bldg.
42	Prob fabrication/ assembly bldg						
43	Prob fabrication/ assembly bldg						
44	U/I bldg						
45	Support bldg						
46	Support bldg						
47	Support bldg						
48	Support bldg						
49	Prob fabrication/ assembly bldg						
50	Prob fabrication bldg						
51	Support bldg						This bldg has a wide high bay.
52	Support bldg						

Item No	Function/ Description	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed & Apparently Complete* (unless otherwise noted)	Comments
		L	W	H			
33	Support bldg						This bldg is located on the NE side of the bldg, within a walled storage area.
54	Prob switch house in substation						
55	Prob admin/ engineering bldg						
56	Support bldg						
57	Prob shop bldg						
58	Support bldg						
59	Support bldg						
60	Support bldg						
61	Press shop bldg						
62	Prob fabrication/ assembly bldg						
63	Prob assembly bldg						This bldg has a 55-ft high bay and a [redacted] high bay.
64	Prob shop bldg						
65	Support bldg						
66	Press support bldg						
67	Press support bldg						
68	Press support bldg						
69	U/I bldg						
70	Support bldg						
71	Warehouse						
72	Warehouse						This bldg is outside the plant wall but may be part of the plant. This bldg is outside the plant wall but may be part of the plant. This bldg is outside the plant wall but may be part of the plant. Located within a walled storage area. Located within a walled storage area.
73	Warehouse						
74	Warehouse						
75	Warehouse						
76	Support bldg						
77	Support bldg						
78	Support bldg						
79	Support bldg						
80	Support bldg						
81	Support bldg						

\* The date first observed is the first date the item was recognizable as a structure. The date apparently complete is the first date the structure outwardly appeared complete.  
\*\*Height measured to eaves.

Table 2. Data on Storage Area (Item numbers are keyed to Figure 3)

Item No	Function	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed & Apparently Complete*	Comments
		L	W	H			
1	Prob warehouse						The bldg is joined to item 10 corridor.
2	Prob shipping/ receiving bldg						
3	Prob warehouse						
4	Prob warehouse						
5	Prob warehouse						
6	Prob warehouse						
7	Prob warehouse						
8	Prob warehouse						
9	Prob warehouse						
10	Prob warehouse						
11	Prob warehouse						The bldg is joined to item 10 corridor.
12	Prob warehouse						
13	Prob warehouse						
14	Prob warehouse						
15	Prob warehouse						
16	Prob warehouse						
17	Prob warehouse						
18	Prob warehouse						
19	Prob warehouse						
20	Prob warehouse						
21	Prob warehouse						The bldg is joined to item 10 corridor.
22	Prob warehouse						
23	Prob warehouse						
24	Prob warehouse						

\*The date observed is the first date the item was recognizable as a structure. The date apparently complete is the first date the structure outwardly appeared complete.

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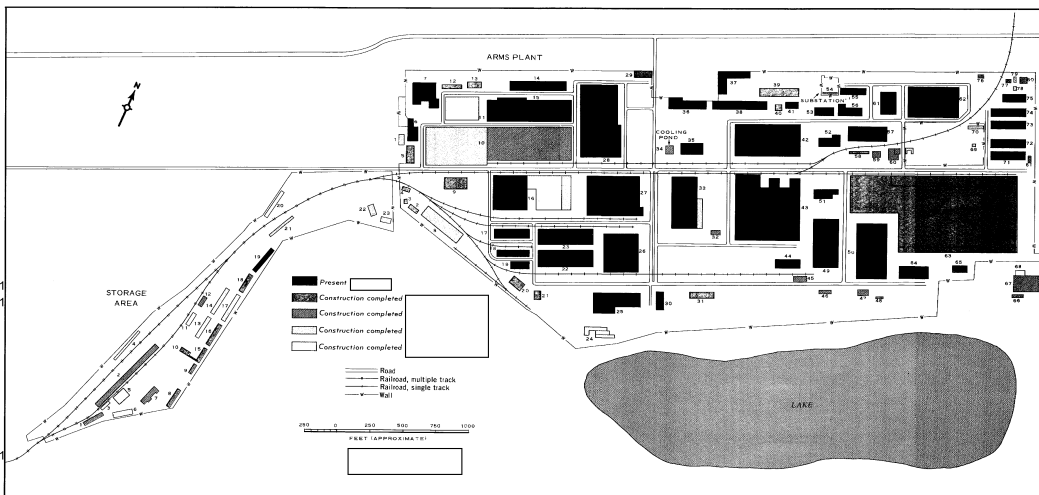


FIGURE 3. LAYOUT OF ARMS PLANT VOROSHILOV 4.

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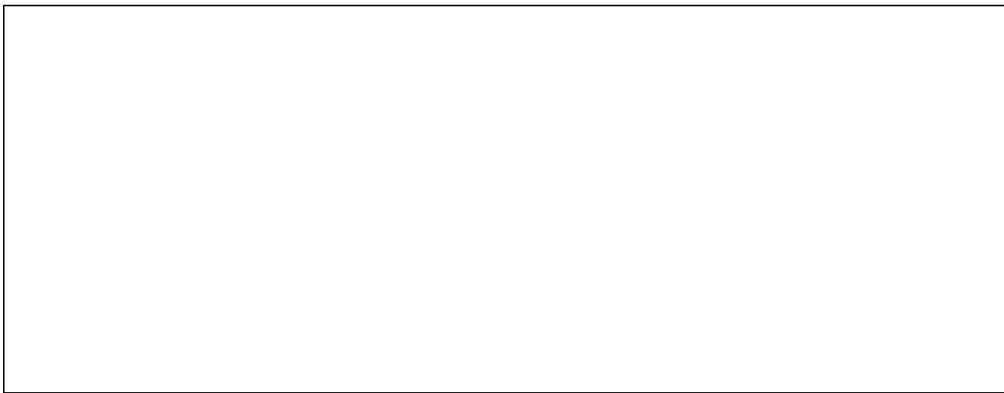


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REFERENCES

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MAPS OR CHARTS

ACIC Series, Scale 1:200,000

REQUIREMENT

CIA. C-DIS-82,973

NPIC PROJECT

11212/66 (partial answer)

\*Because of the large number of missions covering Arms Plant 4, only selected photography is listed.

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